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model-it50-organic-rankine-cycle-system-from-infinity-turbine



**Infinity Turbine
LLC**

IT50 Waste Heat to Power System ORC

Structured Data

This webpage QR code

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Company Name: Infinity Turbine LLC
 Product: IT50 System Plans
 Working Fluid: Refrigerants such as R245fa
 Machine: ORC and ROT Radial Outflow Turbine System
 Industry: Energy
 Applications: Waste heat to power, utilities, server farms, hot geothermal

PDF Version of the webpage (first pages)

<https://infinityturbine.com/model-it50-organic-rankine-cycle-system-from-infinity-turbine.html>

IT50 System Plans

Infinity offers both the ROT turbine plans and the IT50 system plans as a separate package.

We recommend the ROT24 for the IT50, even if it is derated.

Design Heat Exchangers ASME Rated Pressure - Evaporator R-245fa: 450 psi at 300 F shell side, and 150 psi 300 F on tube side. Welding procedures included. Condenser R-245fa: 450 psi at 250 F shell side, and 150 psi 250F on tube side.

Turbine may be used most efficiently at 50 kW, but may also be used for a range of turbines from 30 kW to over 100 kW.

IT50 Revenue based on gross sales or savings, not including cost of acquiring waste heat flow or pumps.

Revenue from IT50 (24 hours x 365 days per year x 50 kWh = 438,000 kWh per year):

at \$.20 per kWh = \$87,600 USD per year

at \$.50 per kWh = \$219,000 USD per year

at \$1.00 per kWh = \$438,000 USD per year

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Build Plans

Turbine plans come with an unlimited build license, unless part of a Technology Guide special, in which case one build is included.

All licensing allows you to scale up or down in sizes, which allows you to build smaller systems, or number up for larger system capacities.

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